

Special Issue

New Imaging Strategies for Organoids

Message from the Guest Editors

Organoids are three-dimensional cell cultures, which are derived from self-assembling stem cells and mimic structural and functional features of real organs. They offer the possibility to study basic processes of organ development and pathogenesis in an in vitro setting and are highly promising alternatives to animal models. Methods for challenging their integrity to define the effects pathogenetic factors have on the tissues and rescue experiments allowing for the examination of the effect of drugs were recently developed. Organoids of many human tissues are already available, yet the production techniques are steadily refined and optimised.

In this Special Issue, we aim to present a collection of articles, which introduce new and describe established developments in the field of organoid imaging. The articles shall highlight the advantages, applications, and limitations of the respective technique for the different types of organoids and provide helpful information on the technical modifications needed for producing optimal results. This shall enable the reader to understand the full spectrum of imaging modalities and to select the method fitting best for the intended research.

Guest Editors

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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